RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/575,580C
Source: IFW16
Date Processed by STIC: 7/17/06

ENTERED

IFW16

RAW SEQUENCE LISTING DATE: 07/17/2006
PATENT APPLICATION: **US/09/575,580C** TIME: 09:07:27

Input Set : **A:\HMV-4801.txt**
Output Set: **N:\CRF4\07172006\I575580C.raw**

<110> APPLICANT: McKeon, F.
Kayako, K.
Ryeom, S.
<120> TITLE OF INVENTION: CALCIPRESSINS: ENDOGENOUS INHIBITORS OF CALCINEURIN, USES AND REAGENTS RELATED THERETO
<130> FILE REFERENCE: HMV-048.01
<140> CURRENT APPLICATION NUMBER: 09/575,580C
<141> CURRENT FILING DATE: 2000-05-22
<150> PRIOR APPLICATION NUMBER: 60/135,431
<151> PRIOR FILING DATE: 1999-05-21
<150> PRIOR APPLICATION NUMBER: 60/161,195
<151> PRIOR FILING DATE: 1999-10-22
<160> NUMBER OF SEQ ID NOS: 49
<170> SOFTWARE: PatentIn Ver. 2.1
<210> SEQ ID NO: 1
<211> LENGTH: 2484
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 1

P.6

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ttactaacac ttcctaacta gagagtaagc ctactctaag aaaaaatata actgtaattt 180
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cttagtaata tgtcttcatt tttttcagat gaggaaacta agattcagct tatttgtaca 300
agtagttaaa aagcaaagct gaaattcaga cccaagttct cactgtatca tactgtccaa 360
aaaagaattc tatttttcag gaagagacat gtctgctcac ttgaggtcct cttatttttc 420
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58 acacttgttg cccgaggagg cggcgcgggt cgcagcgccc agtcccggcc gcgcgcgggg 1620
59 cggggaggca gcgacgtccc ccgggctgct cggccgcgga cccgtcaggg ctggggcgtg 1680
60 gggacggcgc cccgagggtc ccggtccccc agcacccccg gggcgcgcgg agctcactgc 1740
61 agagtcccac aggctcgccc cggcccccgt gtgcgcccag gctggtgcga ctaggggggt 1800
62 gaattcgctc cccaaggtgg ggcagcgccg ccgccccctg cgctctcgcc atcgccccgc 1860
63 atttactcgc tggaggaggg ggtcacctca ttcctaggga ggaggaaaca gacattgagc 1920
64 ggcgacgtga ctcagtgttc ataaatagga cgacgtccct gcattcccaa tctgcactat 1980
65 tggaagaaaa gccaatgttt gggtgaggat ccgtggttgc tcattagcca gcggctggcc 2040
66 agttttggtg gaattgtgtt ggggggaagg ggaccatctt tcagaccttt aggatattta 2100
67 gtcaagaacc ttgccccctt gtgtgaaggt gtggcttgcc gccatcgggg acacccagta 2160
68 catggggagt cgactccttc ccccgcctcc ccccaccccc gcaaaatcca cacaatttag 2220
69 acactttgga gggtgagggg caggtatgag taatcaataa tggtggtggg gaggaagaat 2280
70 ttatttcaaa tctgcagtta ttgtgcagaa taaaatgtgg acaacgtggg cgtcacagaa 2340
71 tgaaaccggt ctttgagaga tgccccatta ggagagcagc tgtcaaaaaa agcagtgctt 2400
72 tcagcgcttg gctgtgggtc cacaaatgct gtcaatgaac tatagttgaa ggctgctgcc 2460
73 aatacaacac cactgtgaaa caga 2484

76 <210> SEQ ID NO: 2
77 <211> LENGTH: 597
78 <212> TYPE: DNA
79 <213> ORGANISM: Mus musculus
81 <400> SEQUENCE: 2
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83 cgcgtgttcg tggacggcct gtgccgggcc aaatttgaat ccctcttcag aacatatgac 120
84 aaggacacca ccttccagta ttttaagagc ttcaaacgtg tccggataaa cttcagcaac 180
85 cccttatctg cagccgatgc caggctgcgg ctgcacaaga ccgagttcct ggggaaggaa 240
86 atgaagttgt attttgctca gactttacac ataggaagtt cacacctggc tccgcccaat 300
87 cccgacaaac agttcctcat ctccctccg gcctctcctc ccgttggctg gaaacaagta 360
88 gaagatgcca cccccgtcat aaattacgat cttttatatg ccatctccaa gctggggcca 420
89 ggagagaagt atgaactgca tgcagcgaca gaccccactc ccagtgtggt ggtccacgtg 480
90 tgtgagagtg accaagagaa tgaggaggaa gaggaagaga tggagagaat gaagagaccc 540
91 aagcccaaaa tcatccagac acggagaccg gagtacacac cgatccacct tagctga 597

94 <210> SEQ ID NO: 3
95 <211> LENGTH: 729
96 <212> TYPE: DNA
97 <213> ORGANISM: Mus musculus
99 <400> SEQUENCE: 3
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102 tttgctgaag aggccttcca agcactcact gacttcagtg atctccccaa ctcattgttt 180
103 gcctgcaatg ttcaccagtc tgtgtttgaa gaagaggaga gcaaggaaaa attcgaggga 240
104 ctgttccgga cctatgatga atgtgtgacg ttccagctgt ttaagagttt ccgacgggtt 300
105 cgaataaatt tcagccatcc caaatctgca gcccgtgccc ggatagagct tcatgagact 360
106 cagttcagag ggaagaagct acccctctac ttcgcccagg tccagacccc agagacagat 420
107 ggagacaaac tgcatttggc acctccacag cctgccaaac agttcctcat ctcacccct 480
108 tcatctccat ctgttggctg gaagcctatc agcgatgcca caccagtcct caactatgac 540
109 cttctttatg ctgtggccaa actaggacca ggagagaaat atgagctgca cgctggaact 600
110 gagtctaccc cgagcgtcgt ggtgcatgtg tgtgacagcg acatggagag ggaggaggac 660

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Input Set : A:\HMV-4801.txt
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117 <212> TYPE: PRT
118 <213> ORGANISM: Mus musculus
120 <400> SEQUENCE: 4
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125             20                  25                  30
127 Glu Ser Leu Phe Arg Thr Tyr Asp Lys Asp Thr Thr Phe Gln Tyr Phe
128         35                  40                  45
130 Lys Ser Phe Lys Arg Val Arg Ile Asn Phe Ser Asn Pro Leu Ser Ala
131     50                  55                  60
133 Ala Asp Ala Arg Leu Arg Leu His Lys Thr Glu Phe Leu Gly Lys Glu
134 65                  70                  75                  80
136 Met Lys Leu Tyr Phe Ala Gln Thr Leu His Ile Gly Ser Ser His Leu
137                 85                  90                  95
139 Ala Pro Pro Asn Pro Asp Lys Gln Phe Leu Ile Ser Pro Pro Ala Ser
140             100                 105                 110
142 Pro Pro Val Gly Trp Lys Gln Val Glu Asp Ala Thr Pro Val Ile Asn
143         115                 120                 125
145 Tyr Asp Leu Leu Tyr Ala Ile Ser Lys Leu Gly Pro Gly Glu Lys Tyr
146     130                 135                 140
148 Glu Leu His Ala Ala Thr Asp Pro Thr Pro Ser Val Val Val His Val
149 145                 150                 155                 160
151 Cys Glu Ser Asp Gln Glu Asn Glu Glu Glu Glu Glu Met Glu Arg
152                 165                 170                 175
154 Met Lys Arg Pro Lys Pro Lys Ile Ile Gln Thr Arg Arg Pro Glu Tyr
155             180                 185                 190
157 Thr Pro Ile His Leu Ser
158         195
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162 <211> LENGTH: 242
163 <212> TYPE: PRT
164 <213> ORGANISM: Mus musculus
166 <400> SEQUENCE: 5
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170 Ala Ser Ile Pro Glu Asp Gly Gly Leu Phe Phe Leu Cys Cys Ile Asp
171             20                  25                  30
173 Arg Asp Trp Ala Val Thr Gln Cys Phe Ala Glu Glu Ala Phe Gln Ala
174         35                  40                  45
176 Leu Thr Asp Phe Ser Asp Leu Pro Asn Ser Leu Phe Ala Cys Asn Val
177     50                  55                  60
179 His Gln Ser Val Phe Glu Glu Glu Glu Ser Lys Glu Lys Phe Glu Gly
180 65                  70                  75                  80
182 Leu Phe Arg Thr Tyr Asp Glu Cys Val Thr Phe Gln Leu Phe Lys Ser
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Input Set : A:\HMV-4801.txt
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183                 85                  90                  95
185 Phe Arg Arg Val Arg Ile Asn Phe Ser His Pro Lys Ser Ala Ala Arg
186             100                 105                 110
188 Ala Arg Ile Glu Leu His Glu Thr Gln Phe Arg Gly Lys Lys Leu Pro
189         115                 120                 125
191 Leu Tyr Phe Ala Gln Val Gln Thr Pro Glu Thr Asp Gly Asp Lys Leu
192     130                 135                 140
194 His Leu Ala Pro Pro Gln Pro Ala Lys Gln Phe Leu Ile Ser Pro Pro
195 145                 150                 155                 160
197 Ser Ser Pro Ser Val Gly Trp Lys Pro Ile Ser Asp Ala Thr Pro Val
198                 165                 170                 175
200 Leu Asn Tyr Asp Leu Leu Tyr Ala Val Ala Lys Leu Gly Pro Gly Glu
201             180                 185                 190
203 Lys Tyr Glu Leu His Ala Gly Thr Glu Ser Thr Pro Ser Val Val Val
204         195                 200                 205
206 His Val Cys Asp Ser Asp Met Glu Arg Glu Glu Asp Pro Lys Thr Ser
207     210                 215                 220
209 Pro Lys Pro Lys Ile Asn Gln Thr Arg Arg Pro Gly Leu Pro Pro Phe
210 225                 230                 235                 240
212 Gly His
216 <210> SEQ ID NO: 6
217 <211> LENGTH: 192
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 6
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223   1               5                  10                  15
225 Val Phe Thr Asn Gln Glu Val Lys Glu Lys Phe Glu Gly Leu Phe Arg
226             20                  25                  30
228 Thr Tyr Asp Asp Cys Val Thr Phe Gln Leu Phe Lys Ser Phe Arg Arg
229         35                  40                  45
231 Val Arg Ile Asn Phe Ser Asn Pro Lys Ser Ala Ala Arg Ala Arg Ile
232     50                  55                  60
234 Glu Leu His Glu Thr Gln Phe Arg Gly Lys Lys Leu Lys Leu Tyr Phe
235 65                  70                  75                  80
237 Ala Gln Val Gln Thr Pro Glu Thr Asp Gly Asp Lys Leu His Leu Ala
238                 85                  90                  95
240 Pro Pro Gln Pro Ala Lys Gln Phe Leu Ile Ser Pro Pro Ser Ser Pro
241             100                 105                 110
243 Pro Val Gly Trp Gln Pro Ile Asn Asp Ala Thr Pro Val Leu Asn Tyr
244         115                 120                 125
246 Asp Leu Leu Tyr Ala Val Ala Lys Leu Gly Pro Gly Glu Lys Tyr Glu
247     130                 135                 140
249 Leu His Ala Gly Thr Glu Ser Thr Pro Ser Val Val Val His Val Cys
250 145                 150                 155                 160
252 Asp Ser Asp Ile Glu Glu Glu Glu Asp Pro Lys Thr Ser Pro Lys Pro
253                 165                 170                 175
255 Lys Ile Ile Gln Thr Arg Arg Pro Gly Leu Pro Pro Ser Val Ser Asn
256             180                 185                 190
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PATENT APPLICATION: **US/09/575,580C** TIME: 09:07:27

Input Set : **A:\HMV-4801.txt**
Output Set: **N:\CRF4\07172006\I575580C.raw**

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263 <211> LENGTH: 170
264 <212> TYPE: PRT
265 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 7
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272              20                  25                  30
274 Ser Asn Pro Phe Ser Ala Ala Asp Ala Arg Leu Gln Leu His Lys Thr
275          35                  40                  45
277 Glu Phe Leu Gly Lys Glu Met Lys Leu Tyr Phe Ala Gln Thr Leu His
278      50                  55                  60
280 Ile Gly Ser Ser His Leu Ala Pro Pro Asn Pro Asp Lys Gln Phe Leu
281  65                  70                  75                  80
283 Ile Ser Pro Pro Ala Ser Pro Pro Val Gly Trp Lys Gln Val Glu Asp
284                  85                  90                  95
286 Ala Thr Pro Val Ile Asn Tyr Asp Leu Leu Tyr Ala Ile Ser Lys Leu
287             100                 105                 110
289 Gly Pro Gly Glu Lys Tyr Glu Leu His Ala Ala Thr Asp Thr Thr Pro
290         115                 120                 125
292 Ser Val Val Val His Val Cys Glu Ser Asp Gln Glu Lys Glu Glu Glu
293     130                 135                 140
295 Glu Glu Met Glu Arg Met Arg Arg Pro Lys Pro Lys Ile Ile Gln Thr
296 145                 150                 155                 160
298 Arg Arg Pro Glu Tyr Thr Pro Ile His Leu
299                 165                 170
302 <210> SEQ ID NO: 8
303 <211> LENGTH: 197
304 <212> TYPE: PRT
305 <213> ORGANISM: Cricetulus griseus
307 <400> SEQUENCE: 8
308 Met His Phe Arg Asp Phe Asn Tyr Asn Phe Ser Ser Leu Ile Ala Cys
309   1               5                  10                  15
311 Val Ala Asn Gly Asp Val Phe Ser Glu Ser Glu Thr Arg Ala Lys Phe
312              20                  25                  30
314 Glu Ser Leu Phe Arg Thr Tyr Asp Lys Asp Ile Thr Phe Gln Tyr Phe
315          35                  40                  45
317 Lys Ser Phe Lys Arg Val Arg Ile Asn Phe Ser Asn Pro Leu Ser Ala
318      50                  55                  60
320 Ala Asp Ala Arg Leu Gln Leu His Lys Thr Glu Phe Leu Gly Lys Glu
321  65                  70                  75                  80
323 Met Lys Leu Tyr Phe Ala Gln Thr Leu His Ile Gly Ser Ser His Leu
324                  85                  90                  95
326 Ala Pro Pro Asn Pro Asp Lys Gln Phe Leu Ile Ser Pro Pro Ala Ser
327             100                 105                 110
329 Pro Pro Val Gly Trp Lys Gln Val Glu Asp Ala Thr Pro Val Ile Asn
330         115                 120                 125
332 Tyr Asp Leu Leu Tyr Ala Ile Ser Lys Leu Gly Pro Gly Glu Lys Tyr
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/17/2006
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Input Set : **A:\HMV-4801.txt**
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:27; N Pos. 2410
Seq#:28; Xaa Pos. 6
Seq#:33; Xaa Pos. 1,2,3
Seq#:46; Xaa Pos. 6
Seq#:47; Xaa Pos. 4
Seq#:48; Xaa Pos. 4

VERIFICATION SUMMARY DATE: 07/17/2006
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Input Set : **A:\HMV-4801.txt**
Output Set: **N:\CRF4\07172006\I575580C.raw**

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L:910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0